



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	
PO039701	MES002-VC	1	1	Net 30	M4130NT0.750W.049	4130 Round Tube .750 X.049W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft				40	5/7/2018	40		S070006	Stock	5/10/2018	\$ 11.25 / ft	0	
		2			M4140H-R1.125	4140 Round Bar 1.125 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434-BC/- A193-03-GRADE B7/-A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft				20		22		S070007	Stock	5/10/2018	\$ 7.10 / ft	0	
Total:										60		62							

Plex 5/10/2018 8:06 AM Dart,Dubois,Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039701**

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO039701

PO Date: 4/25/18

Due Date: 5/7/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
APR 27 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: bid 27149

RE UISH

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M4130NT0.750W.049		4130 Round Tube .750 X.049W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft	Firmed	5/7/18	40 ft	0 ft	40 ft	\$11.25/ft	\$450.00
							39.5'			
									MAY 09 2018	
2	M4140H-R1.125		4140 Round Bar 1.125 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434-BC/-A193- 03-GRADE B7/-A29-03/- A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft	Firmed	5/7/18	20 ft	0 ft	20 ft	\$7.10/ft	\$142.00
							22'			
									MAY 09 2018	
Grand Total:										\$592.00

DAS
11
9-89

DAS
11
9-89

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

CL

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 *Tel.* : 450 641-3330

Customer : 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Shipping Order 08/05/2018

Order : 134770
Reference : 39701
Bid : 27149
Ship : PICK UP / PICK UP

Ship To

Same

Tel. : 1 613 632-3336

<i>Item No.</i>	<i>Description</i>	<i>Qty</i>	<i>Qty. Delivered</i>	<i>B/O Qty</i>
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
DT3404930	4130N TUBE .750 X .049 2 x 19.75' ht;606100	39.5	39.5	d
MR11841H	4140 HTSR ROU 1.125 DIA 1 x 22' ht;75065099	22	22	cf
	ship journey collect jp			

Shipping : _____
Package No : _____
Merchandise Received : _____

Ref. :

Pat Gmel
1 PCS
05-0818

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
4-MAY-2018

44655-J
PART NUMBER/NUMÉRO DE PIÈCE
100182

Invoice Number
T379178

SOLD TO: METAUX SOLUTIONS INC.	SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST	2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7	LONGUEUIL QC J4N 1

Description: 4130 CDS TUBING AMS T 6736 COND N;
750 OD X .049 W (.652 ID) X 17/24' R/L Line Total: 36.9783 FT
HEAT: 606100 ITEM: 100182

Specifications:
AMS T 6736 B MIL T 6736 B AMS 6360 M
ASTM A450 ASTM E112 AMS 2640 J
ASTM E1444 AMS 2301 EN 10204 3.1/3.2 04
FAR BAA FAR 52.225-1 DFARS 252.225-7001 FAR TAA FAR 52.225-5

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	NI	CR
0.31	0.5300	0.012	0.002	0.24	0.15	0.10	0.90
MO	V	TI	AL	SN			
0.20	0.002	0.002	0.035	0.011			

RCPT: R402455

COUNTRY OF ORIGIN : GERMANY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED	HARDNESS
	PSI	PSI	IN 02 IN	IN AREA	RC
	107400.0	118300.0	19.0		23

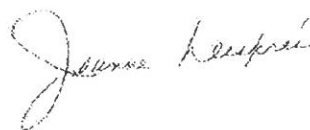
GRAIN SIZE : 9 -

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
4-MAY-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

44655-J

PART NUMBER/NUMÉRO DE PIÈCE

100182

Invoice Number
T379178

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 4130 CDS TUBING AMS T 6736 COND N;
.750 OD X .049 W (.652 ID) X 17/24' R/L Line Total: 36.9783 FT
HEAT: 606100 ITEM: 100182

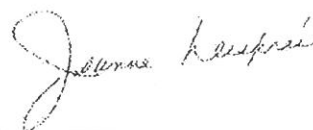
DECARB: OK
AMS NO :2301
SEVERITY :0.015
FREQUENCY:0.02

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CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
4-MAY-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

44655-J

Invoice Number
S706609

PART NUMBER/NUMÉRO DE PIÈCE

506426

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
1-1/8 RD X 20' R/L Line Total: 74.426 LB
HEAT: 75065099 ITEM: 506426

Specifications:

ASTM A193 GR B7 16

ASTM A434 GR BC 15

ASME SA193 GR B7

ASTM MA322 13

ASTM A962 12

ASTM A29 15

JDM AO QL-2

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.41	0.87	0.015	0.029	0.23	0.19	0.90	0.17
CU	SN	AL	V	CA	NB	H	
0.20	0.01	0.022	0.003	0.0008	0.001	2.80	

RCPT: R320531

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	139.0	153.0	21.0	56.0	280

IDEAL DIAMETER : 5.1 IN GRAIN SIZE : 5 - 8

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CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
4-MAY-2018

44655-J
PART NUMBER/NUMÉRO DE PIÈCE
506426

Invoice Number
S706609

SOLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS (RIVE-SUD)
VENDU À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7	EXPÉDIÉ À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
1-1/8 RD X 20' R/L
HEAT: 75065099
ITEM: 506426
Line Total: 74.426 LB

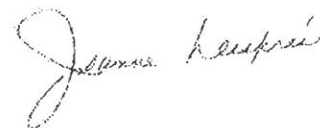
STRAND CAST REDUCTION RATIO 68.5 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
THERMAL TREATMENT: OK
AUSTENIZE 1640 DEG F FOR .60 MIN.
QUENCH 88 DEG F FOR .20 WATER
TEMPER 1410 DEG F FOR 60 MIN
MACRO: OK
MICRO: OK

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JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140H-R1-125
 DATE: MAY 09 2018

PO / BATCH NO.: 038701/5070007

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 22'
 QUANTITY INSPECTED: 22'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.125
 THICKNESS RECEIVED: 1.125
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Astm A193
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 75065089
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAY 09 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02/-A-434-BC /
A193-03 GRADE-B7 /-A29-03 /-A322-91 OR
UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi
MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA.

EG. 7/8" ROUND BAR = M4140H-R0.875

RELEASED
05.03.25 #

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M413RN10.250W.049
 DATE: MAY 09 2018

PO / BATCH NO.: 039701/5070006

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 39.5
 QUANTITY INSPECTED: 39.5
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.049
 THICKNESS RECEIVED: W.049
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	<u>#6736</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>606100 dent#</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAY 09 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 4130N SEAMLESS STEEL TUBING

SPECIFICATION: MIL-T-6736 OR AMS 6371, 6360, 6361, 6362, 6373, 6374

PART NUMBER: M4130N TD.DDD W. TTT | DIA. | WALL | WHERE: "D.DDD" = OUTER DIAMETER (IN INCHES)
AND "TTT" = WALL THICKNESS (IN INCHES)

EG. 3/4" TUBING WITH .035" WALL = M4130NT0.750W.035

RELEASED
2012-04-16

B	REFORMAT DWG TO ACCOMMODATE ADDITIONAL TUBE DIAMETERS AND WALL THICKNESS	RP	12.04.02
A	NEW ISSUE	JB	01.05.16
REV	DESCRIPTION	BY	DATE
DESIGN	JB		
DRAWN	RP		
CHECKED	AP		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.04.02		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M4130N-T		SHEET 1 OF 1	
TITLE STEEL TUBING		SCALE NTS	
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